

Appl No.: 10/811,595

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PC-1696

The changes to the specification will replace all prior versions in the application:

Page 2, lines 12-18, change paragraph as follows:

A larger enclosure is shown and described in U.S. patent 6,666,910 to Burkhart. However, this enclosure would appear to take potentially longer than the 15-20 minute time limit that would occur with an unexpected act of terrorism. This enclosure seems to be a modified version of using sheet plastic and duct tape that would not work. Also, the sheet material in Burkhart does not describe, teach, nor suggest how it would be able to seal against and be impervious to chemical and biological airborne agents and radioactive particles(from nuclear fallout) that can occur in a terrorism attack.

Page 3, lines 24-26, change paragraph as follows:

A multi-stage filtration and blower can also be used for releasing air from the enclosure for quarantine purposes. A four phase filtration system can include a Nuclear rated HEPA(High Efficiency Particulate Air) cell, activated Carbon cell, microbial filter and electrostatic filter.

Page 5, lines 20-26, change paragraph as follows:

The individual pole pieces can each be formed from tubular metal, spring steel, plastic, graphite, fiberglass, composite, and the like, similar to pole supports used in existing tents such as those manufactured by Coleman® and the like. For example, the invention can use similar bendable poles such as those shown and described in U.S. patents 4,590,956 which is incorporated by reference. The invention uses pole pieces that when assembled can create a rod shape that can flex but with a memory that tends to force the rod back into a straight rod configuration.

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Page 7, lines 4-7, change paragraph as follows:

The sheet material can be formed from multi-laminates, and include substances such as Polytetrafluoroethylene(also known as Teflon[®] or TEFLON[®]), and the like, as well as other materials that would be impervious to chemical and biological gases and particulates as well as radioactive gases and particulates, and the like.

Page 7, lines 12-21, change Table 1 as follows:

Table 1. Airborne Chemical and Biological Agents and Radioactive particles

nerve gas	anthrax	radioactive
mustard gas	smallpox	particles(≥ 0.3 micron)
serin	polio	
cyanide	bacteria	
Hydrogen Sulfide	viruses	
Sulfur Dioxide	fungi	
Nitrogen Dioxide.	SARS(Sudden Acute Respiratory Syndrome)	

Page 7, lines 27 to page line 4, change paragraph as follows:

When taken from a storage container 10-20 as shown in Fig. 1, the folded enclosure 100 is unfolded, and is raised into a dome configuration by placing two assembled poles (10', 15') each through raised sleeves 112 that are preformed by stitching and the like, on side wall panels 110 of the enclosure 100 as shown by the pole 40-10' being inserted in the direction of arrow S into raised sleeves 112 on enclosure wall 110 shown in Fig. 3. A single person can fish a single long pole 10' into the raised sleeves 112. The pre-existing dome configuration shape forces the poles 10', 15' to flex which together creates the assembled dome configuration 100'. End tips 11 and 16 on each of the poles 10', 15' can extend downward beneath the floor portion 120 of the assembled enclosure 100'.

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Page 8, lines 12-22, change paragraph as follows:

The preferred embodiment of the assembled enclosure 100' can include a zipper arrangement 150 along one outer wall. The zipper 150 is preferably an air tight and watertight fastener such as those used by divers and with body bags, and can be of multi-layer configuration and be similarly formed with the multi-layer material previously described. The zipper 150 can be attached to the enclosure walls by the RF welding technique previously described and/or by being sewn, and the like, thereon. Examples of such zippers can include but are not limited to those shown and described in reference to U.S. Patents; 4,099,656 to Neumann et al. and 4,641,400 to Morelan, each incorporated by reference. Alternatively, the invention can use other types of watertight and air tight fasteners that can include multi-layer hook and loop fasteners, snap fasteners and the like, that must also be able to seal a positive air pressure inside of the enclosure.

Page 9, lines 3-15, change paragraph as follows:

The multi-stages can include a carbon filter, a HEPA filter, an anti-microbial filter and an electric filter. The carbon filter can be a carbon-filter-nuclear rated activated carbon bed cell which can absorb virtually all gases and odors that pass through. Adsorption in the process by which activated carbon captures gases and odors, such as ones used for military gas masks, and the like. The HEPA(High Efficiency Particulate ArrestanceAir) filter can be rated to capture approximately 99.99% of radioactive particles as small as approximately 0.3 microns from entering into the enclosure. The anti-microbial filter captures and kills airborne microbes by using a UV(ultraviolet-light) light source in various selected nanometer ranges for killing off microbes, and the like. The electric filter can be an electrostatic filter, a high voltage filter, and/or an electret type filter, such as the one shown and described in reference to U.S. Patent 4,185,972 to Nitta et al, which is incorporated by reference. The various filters can be connected together so that external air is purified by being passed through each filter stage.

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Page 10, lines 13-16, change paragraph as follows:

Fig. 7 shows equipment 500 that can be used inside of the enclosure invention.

The equipment 500 can include but is not limited to 12 volt chargers 510, heavy duty safety clamps 520, AM/FM radios, 120 volt DC outlet 530, LED battery status indicator, and a 250 psi 12 volt air compressor 540 can be used.

Page 10, lines 17-22, change paragraph as follows:

The subject invention tent enclosures were tested in environments where various noxious gases were present outside of the novel tent enclosures, and readings were taken inside a closed tent enclosure of the invention. Table 2 compares OSHA(Occupational Safety and Health Act) PEL(Permissible Exposure Level) standards for the amount of exposure level that is considered acceptable for various noxious gases such as Hydrogen Sulfide, Sulfur Dioxide and Nitrogen Dioxide.

Page 11, lines 11-15, change paragraph as follows:

Following these tests, the invention tent enclosures were subjected to over four(4) times the OSHA PEL(permissible exposure level)limits) for Nitrogen Dioxide, while the concentration level inside the novel tent enclosure was verified to remain below the OSIIA PEL level listed in Table 4_2. For these tests the novel tent enclosure was subjected to noxious gases for a twenty four(24) hour duration.

Page 11, lines 21-24, change paragraph as follows:

For outdoor use, an additional silvered covering draped over the clear plastic sealed enclosure (like aluminum foil) could provide solar thermal and similar radiation protection. In colder climates, lightweight thermal blankets (aluminum foil clad cloth) may also be appropriate.

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Page 12, lines 21 to page 13, line 6, change paragraph as follows:

The novel enclosure is a novel family protective shelter which can be erected quickly inside a home living room, family room, patio, or on an outside lawn area. This dome tent enclosure is designed of clear plastic sheet material which is impervious to gasses used to conduct chemical warfare (such as anthrax, smallpox, polio, bacteria, viruses, or fungi, or other atmospheric toxins). This protective "pop-up", external frame enclosure will be sized to house two to six adults comfortably (6' x 9' x 7' high inside, up to about 10' x 18' x 7' high), can incorporate a zip-lock entrance/egress isolation portal chamber, and will communicate to the outside world through combat gas mask filters, plus phone, computer and electrical outlet feed-through, and perhaps a water trap coupling. The object is to keep a family of 1 to 10 (with a larger size) relatively isolated and safe from the harmful effects of a chemical biohazard, or nuclear fallout enemy attack for a matter of hours up to several days. The portal chamber can be used to also connect together additional dome tent modules to accommodate more family members.

Page 13, lines 7-12, change paragraph as follows:

Fig. 8 is another version of a multi-stage filter system 600 that can be used with the invention. The invention can use a composite filter system with a pop-up domed domed tent structure of gas impervious plastic which can be erected in about two minutes by two people and serves as a sealed controlled environmental chamber for temporary living quarters, thus avoiding contamination, and subsequent risk from disease or death, from the outside world.

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Page 15, lines 22 to line 27, change paragraph as follows:

The invention allows for a low cost, affordable by a majority of families, this form of protection can be made available with having various options providing for an additional levels of comfort. Not only is this system applicable with the protective enclosure, but this aid filtration system can easily be scaled up in size, utilizing the same types of multi-stage components to protect the inhabitants and contents of an entire household, provided that air leakage and circulation paths are identified and controlled.